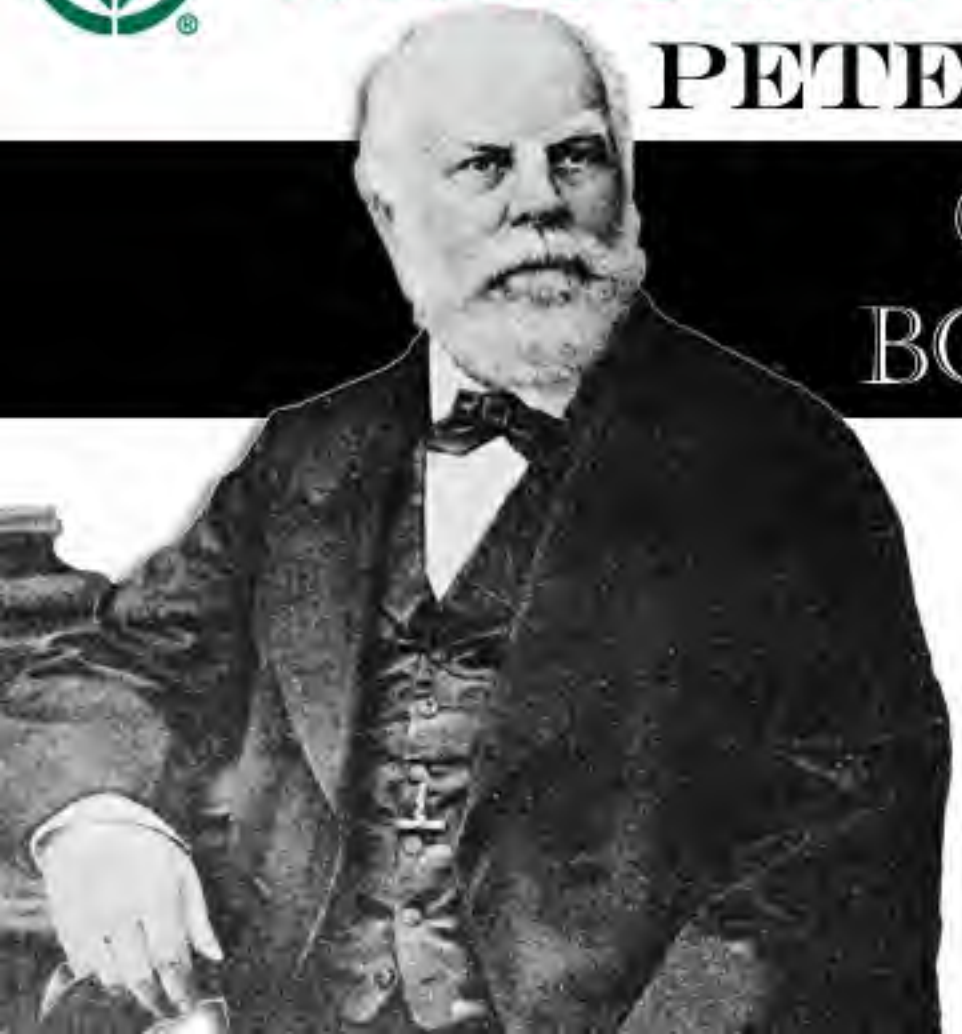
# Missouri Botanical Garden
## Peter H. Raven Library

# George Engelmann Botanical Notebooks



*Pagination Note:*
*Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.*

~~with~~ opened

The desire urged in our Transactions ~~in~~ the year 1860 (see vol I p. 667 note) that official observations might ~~should~~ be made on the Vestage of the Mississippi at this point, was ~~to~~ realized soon afterwards. ~~With~~ the first of January 1861 ~~the~~ official City Engineer T. J Homer Esq has these observations made and published ~~them~~ in the daily papers. ~~Comparison for~~ ~~five years notable results have already been obtained~~ ~~For which I thank these~~ I thereby beg before thanking with them I have incorporated ~~with them~~ Observations made at the Missouri Arsenal just below the City during 24 months (from May 1843 to April 1845) by Capt. T. J. Cram Top. Eng. Such I find in the highly valuable ~~contents~~ Report on the Physics and Hydraulics of the Mississippi River, by Capt Humphreys and Lieut Abbot, Philad. 1861 Appendix B. p. XXIV. As these observations embrace the year of our great flood, 1844, they are of particular importance to us. Indeed them we have now levels & tables comprising a space of 7 years to draw some general conclusions from.

The first diagram on plate 12. gives a general view of the stage of the River from Jan 1861 to Dec 1864. It was engraved a year ago and therefore does not include the last year (1865), which as the tables will show, varied considerably from the 4th from preceding ones. rolled

On the diagram the level of the City datum, the curbstone at the intersect of Market street & the Levee is marked (33 feet 9 3/4 inches or 33,8 feet above the low water mark established December 1863 to which all the former observations have been reduced; above this mark also the highest point (the flood of 1844 reached on Jan 27, 1844 is indicated thus)

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Notes on the Lunes sent by C. E Smith, Philadelphia Nov 1866

L. pubescens — How is it if collected earlier — lower, in bloom more compact?

"Lacuminatus var subconduplicatus" Griffiths' Sept 23 in water

it a beautiful form of L. acum. var debilis, foliis subnervis?

More next year — 100!

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Desiderata for next year, 1867 from Philadelphia

L. Canadensis var subconduplicatus forma laxa subdecumbens,

Gravel pits. fl. abt Aug 1st. fr. abt Sept 1st

L. Canad. congeneris, gracilior, ~~petiolis~~ pauciflorus Bristol

capsulis longe acuminatis; fl. & fr. abt same time

or perhaps both one or two weeks earlier

L. acuminatus var debilis Deanesville flowers probably

abt June 1st fruit perhaps Jun 20–30

L. arbuscula. var obtusior Petty's Island fl. July 15

fr. Aug 10–15

L. acuminatus var debilis forma foliis subnervosis a beautiful

form which ought to be collected when in fruit, say

June 15–30 — question whether the leaves will then be

so prettily developed. Griffith's, N Jersey Sept 23 1866

L pubescens var, the early, low, compact flowering form, to be

collected in June or July

L. Canad. Congeneris, from Deal (Asbury Sarah). Some capitate

if a constant variety.

L. Torreyi var approachis Torreyi, to be collected at Deal by

end of May or in June

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